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FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/13/2000	David Lipson	2	7710
7590 12/03/2004		EXAMINER	
Peter Forrest 7330 Bancroft Way		JUNG, WILLIAM C	
		ART UNIT	PAPER NUMBER
		3737	
	11/13/2000	11/13/2000 David Lipson 12/03/2004	11/13/2000 David Lipson 2 12/03/2004 EXAM JUNG, WI s, MN 55077-3115 ART UNIT

DATE MAILED: 12/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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<u></u>		Application No.	Applicant(s)			
		09/711,440	LIPSON ET AL.	WV C		
Office Action Summary	ffice Action Summary	Examiner	Art Unit			
:		William Jung	3737			
The Period for Rep	MAILING DATE of this communication app	pears on the cover sheet with the o	orrespondence ac	ddress		
THE MAILI - Extensions of after SIX (6) - If the period - If NO period - Failure to rep Any reply rec	ENED STATUTORY PERIOD FOR REPL'NG DATE OF THIS COMMUNICATION. If time may be available under the provisions of 37 CFR 1.1 MONTHS from the mailing date of this communication. for reply specified above is less than thirty (30) days, a reply for reply is specified above, the maximum statutory period to be specified above. The maximum statutory period to the specified above and the specified above. The maximum statutory period to the specified above and the specified above. The specified above is less than thirty (30) days, a reply for reply will, by statute and the specified above. The specified above is less than thirty (30) days, a reply for reply will, by statute and the specified above. The specified above is less than thirty (30) days, a reply for reply will, by statute and the specified above is less than thirty (30) days, a reply for reply will, by statute and the specified above is less than thirty (30) days, a reply for reply will, by statute and the specified above is less than thirty (30) days, a reply for reply will, by statute and the specified above is less than thirty (30) days, a reply for reply will, by statute and the specified above is less than thirty (30) days, a reply for reply will, by statute and the specified above is less than thirty (30) days, a reply for reply will, by statute and the specified above is less than thirty (30) days, a reply for reply will, by statute and the specified above is less than thirty (30) days, a reply for reply will, by statute and the specified above is less than thirty (30) days, a reply for reply will, by statute and the specified above is less than thirty (30) days, a reply for reply will, by statute and the specified above is less than thirty (30) days, a reply for reply will, by statute and the specified above is less than thirty (30) days, a reply f	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this of D (35 U.S.C. § 133).	ly. communication.		
Status						
1)⊠ Resp	oonsive to communication(s) filed on 29 M	larch 2004.				
,	a) This action is FINAL . 2b) This action is non-final.					
•	·					
close	ed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of	Claims					
4)⊠ Clair	n(s) <u>1,2,4-13 and 15-18</u> is/are pending in	the application.				
4a) C	of the above claim(s) is/are withdraw	wn from consideration.				
· ·	S) Claim(s) is/are allowed.					
	n(s) <u>1,2,4-13 and 15-18</u> is/are rejected.					
•	n(s) is/are objected to.					
8)[Clair	n(s) are subject to restriction and/o	r election requirement.				
Application P	apers					
9)∐ The s	pecification is objected to by the Examine	er.				
10)∐ The c	frawing(s) filed on is/are: a)☐ acc	epted or b)⊡ objected to by the	Examiner.			
• • •	cant may not request that any objection to the					
	acement drawing sheet(s) including the correct					
11)∐ The c	eath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form P	TO-152.		
Priority under	35 U.S.C. § 119					
12) <u></u> Ackno a)	owledgment is made of a claim for foreign b) Some * c) None of: Certified copies of the priority document)-(d) or (f).			
1.□ 2.□	Certified copies of the priority document		ion No.			
3.□				l Stage		
٠.٢	application from the International Bureau					
* See th	e attached detailed Office action for a list		ed.			
Attachment(s)						
	eferences Cited (PTO-892)	4) Interview Summary				
2) Notice of D	raftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D 5) Notice of Informal F		·O-152)		
	Disclosure Statement(s) (PTO-1449 or PTO/SB/08))/Mail Date	6) Other:	ατοπι Αμμποαποπ (Ε.Ι	J 102,		

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1, 2, 4-13, and 15-18 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 4, 5, 11-13, 15, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Taenzer* (US 4,237,901) in view of *Ragauskas et al* (US 5,951,477).

Taenzer et al substantially disclose all claimed features in claims 1, 2, 4-13, and 15-18.

Claims 1, 2, and 11: Taenzer discloses an ultrasound transducer dynamically coupled to a patient to measure vascular health to diagnose cardiovascular diseases such as heart attacks and strokes by determining the blood velocity (flow) and pressure (col. 1, line 43 – col. 2, line 60). However Taenzer does not disclose that the dynamic coupling of the transducer is made to a skull. Ragauskas et al teach that the ultrasound transducer is coupled to the skull to image and diagnose blood vessels and blood velocity to determine intracranial blood pressure (col. 1, line 55 – col. 2, line 39; col. 2, line 59 – col. 4, line 22). Although Taenzer does not specify the exact location of the transducer coupling to a skill it is well known in the art as evidence by Ragauskas et al to couple the ultrasound transducer to a skull. Therefore, it would have been obvious to one

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having an ordinary skill in the art at the time the invention was made to apply Taenzer's teaching to Ragauskas et al's.

Claim 4 and 5: Ragauskas et al ('477) disclose image processing and image display 94 of the ultrasound data acquired from the method and apparatus described above as shown in figure 1.

Claims 12, 13,15, and 18: Ragausakas et al ('477) further teach that the ultrasound transducer 30 can be coupled to the ocular opening of the skull as shown in figure 1 along with coupling medium 28. The transducer is designed to measure the ICP via flow inside the optic artery (col. 1, line 60 – col. 2, line 10).

4. Claims 6-10, 16, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Taenzer and Ragauskas et al (US 5,951,477) as applied to claim 4 above, and further in view of Ragauskas et al (US 5,388,583).

Taenzer and Ragauskas et al ('477) substantially disclosed all claimed features in claims 6-10, 16, and 17. However, neither Taezner nor Ragauskas et al defined the diagnosing of the stroke with specific labeling of normal or abnormal blood flow to assess the stroke.

Claims 6-10: Ragausakas et al ('583) teach that ultrasonic measurement of blood flow and characteristic can be assessed by characterizing improper blood circulation, i.e. differentiating normal and abnormal (inadequate or diffused blood flow).

5. Claims 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Taenzer and Ragauskas et al (US 5,951,477) as applied to claim 4 above, and further in view of Michaeli (US 6,328,694). Art Unit: 3737

Taenzer and Ragauskas et al ('477) substantially disclosed all claimed features in claims 16 and 17. Michaeli further teaches that the measurement accuracy of the transcranial Doppler can be improved by use of acoustic window through bone, nasal or aural opening (col. 1, lines 37-56). Therefore, it would have been obvious to one having an ordinary skill in the art at the time the invention was made to apply the teachings of Taenzer and Ragauskas et al ('477) and to the teachings of Michaeli to achieve the claimed invention

Allowable Subject Matter

6. Claims 3 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William Jung whose telephone number is 571-272-4739. The examiner can normally be reached on Mon-Fri 8:30 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Ali Imam

Primary Examiner Art Unit 3737

ん(了 November 17, 2004